

This Page Is Inserted by IFW Operations
and is not a part of the Official Record

BEST AVAILABLE IMAGES

Defective images within this document are accurate representations of the original documents submitted by the applicant.

Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

IMAGES ARE BEST AVAILABLE COPY.

**As rescanning documents *will not* correct images,
please do not report the images to the
Image Problem Mailbox.**

1 MSVDEICENTKMGREYALLGNYETSLVYYQGVLQQIQKLL
 41 TSVHEPQRKHQWQTIRQELSQEYEHVKNITKTLNGFKSEP
 81 AAPEPAPNHRAAPFSHHQHAAKPAAAEPARDPDVWPPP
 121 VDHRPSPPYQRAARKDPPRSEPSKPANRAPGNDRRGP
 161 SDRRGDARSGGGRRGARGSDKDKNRGGKSDKDKAPS
 201 EGDEKKFDPAGYDKDLVENLERDIVQRNPNVHWADIAGLT
 241 EAKRLLEEAVVLPLWMPDYFKGIRRPWKGVLMVGPPGTGK
 281 **T**MLAKAVATECGTTFFNVSSASLTSKYHGESEKLVRLFE
 321 MARFYAPSTIFIDEIDSICSKRGTGSEHEASRRVKSELLI
 361 QMDGVSGPSAGEESSKMVMVLAATNFPWDIDEALRRRLEK
 401 RIYIPLPEIDGREQLLRINLKEVPLADDIDLKSIAEKMDG
 441 YSGADITNVCRDASMMAMRRRIQGLRPEEIRHIPKEELNQ
 481 PSTPADFLALQKVSKSVGKEDLVKYM**AWMEEFGSV**

FIG. 1A

p60	231	VHWADIA <u>GLTEAKRLLE</u> EAVVLPLWMPDYFKGIRRPW. KGVL MVGPPGTG
mei-1	190	MSLDDII <u>IGMHDV</u> KQVLHEAVTLPLLVPEFFQGLRSPW.KAMVLAGPPGTG
Sug1p	145	STYDMV <u>GGLT</u> KOIKEIKEVIELPVKHP <u>ELF</u> ESLGIAOPKGVILYGPPGTG
ftsh	149	TTFAD <u>VAGC</u> DEAKEEV <u>ELVEY</u> .LREPSRFQKLGGKIPKGVLMVGPPGTG
Pas1p	694	IKWGDIGALANAKDV <u>LL</u> ETLEWPTKYEP <u>IF</u> VNCPLRLRS <u>GILL</u> YGP <u>CG</u>
NSF	224	EKMGIGGLD <u>DEF</u> SDIFRR <u>RAFASRV</u> FPP <u>EIVE</u> QMGCKHVKG <u>ILL</u> YGP <u>CG</u>
p60	280	K MLAKAVATECGTTFFN. V SSASLT <u>SKYHGESEKLV</u> RLFE <u>MARFYAP</u> .
mei-1	239	K TLIARAIA <u>SESSST</u> FFT. V SSTD <u>SSK</u> WR <u>GDSEKIV</u> RLFE <u>MARFYAP</u> .
Sug1p	195	K TLLARA <u>VAHHTDCK</u> FIR. V SG <u>AE</u> LV <u>QKY</u> IGEGSRM <u>VREL</u> FVMAREHAP.
ftsh	198	K TLLAKAI <u>AGEAKV</u> PFFT. I SG <u>SDFV</u> EMFVG <u>VGASRV</u> DM <u>FEQAKK</u> AP.
Pas1p	744	K TLLASAV <u>QQCGLNF</u> IS. V K <u>GE</u> ILN <u>KF</u> IG <u>ASE</u> QN <u>IRE</u> LF <u>ERA</u> QS <u>VK</u> P.
NSF	274	K TLLAR <u>QIGKMLN</u> AREPKVVNG <u>PEILN</u> KY <u>MGE</u> SEAN <u>IRK</u> LEADAE <u>EE</u> QRR
p60	328 <u>STIFIDEIDSICSKR</u> .. <u>G</u> TGSEHEASRRV <u>KSELLI</u> <u>QMDGV</u> SGP
mei-1	287 <u>SIIFIDEID</u> TLGG <u>Q</u> R.. <u>G</u> NSGEHEASRRV <u>KSEFL</u> <u>QMDG</u>
Sug1p	243 <u>SIIFMDEIDSIGSTRVE</u> GGGG <u>DSE</u> U <u>ORTM</u> LE <u>LL</u> <u>QMDG</u> FET.
ftsh	246 <u>CIIFIDEID</u> AVGR <u>QRGAGL</u> GGGH <u>DERE</u> OTLN <u>QML</u> VE <u>MDG</u> FEG.
Pas1p	792 <u>CILEFDEFDSIAPKRGH</u> ... <u>D</u> STGV <u>TD</u> RVV <u>NQ</u> LL <u>QMDG</u> AE <u>GL</u>
NSF	324	LGANS <u>GLH</u> II <u>IFDEIDA</u> ICK <u>QRG</u> S. <u>MAGSTGV</u> HDT <u>VV</u> N <u>Q</u> LL <u>SKIDG</u> VE <u>QL</u>
p60	369	SAGE <u>ESS</u> KMVMVLAATN <u>F</u> P <u>WD</u> I <u>DE</u> ALRR.. <u>R</u> LEKRIYI <u>IP</u> LPEIDG <u>RE</u> OLL
mei-1	324	SQN <u>KFD</u> SSRRV <u>F</u> VLAATN <u>I</u> P <u>WEL</u> DE <u>ALRR</u> .. <u>R</u> FEKRIFIP <u>LP</u> DIDARK <u>KL</u> I
Sug1p	285SKNI <u>I</u> IMATNR <u>LD</u> LL <u>D</u> P <u>ALL</u> RP <u>GR</u> IDR <u>KIE</u> F <u>PPPS</u> V <u>AA</u> RA <u>E</u> IL
ftsh	288NEGI <u>I</u> VIAATNR <u>PD</u> V <u>LD</u> P <u>ALL</u> RP <u>GR</u> FDR <u>QVV</u> VL <u>PD</u> V <u>RG</u> RE <u>Q</u> IL
Pas1p	832	D..... <u>GVY</u> ILAAT <u>SRP</u> D <u>I</u> DS <u>ALL</u> RP <u>GR</u> L <u>DK</u> S <u>VI</u> C <u>N</u> I <u>P</u> TE <u>SER</u> L <u>D</u> IL
NSF	373	N..... <u>NIL</u> VG <u>MTN</u> RP <u>D</u> I <u>DE</u> ALLRP <u>GR</u> LE <u>V</u> K <u>M</u> E <u>I</u> GLP <u>DE</u> K <u>GRL</u> Q <u>IL</u>
p60	417	RINL..... <u>K</u> EV <u>P</u> L <u>ADD</u> IDL <u>K</u> SIA <u>E</u> KMD <u>G</u> Y <u>S</u> GAD <u>I</u> T
mei-1	372	EKSM..... <u>E</u> GTP <u>K</u> S <u>D</u> E <u>I</u> NY <u>D</u> DLA <u>AR</u> T <u>E</u> G <u>F</u> S <u>G</u> A <u>D</u> V <u>V</u>
Sug1p	329	RIHS..... <u>R</u> KM <u>N</u> TR <u>G</u> IN <u>L</u> R <u>K</u> V <u>A</u> E <u>K</u> M <u>N</u> G <u>C</u> S <u>G</u> A <u>D</u> V <u>K</u>
ftsh	332	KV <u>H</u> <u>R</u> RV <u>P</u> L <u>AP</u> D <u>I</u> D <u>AA</u> I <u>I</u> AR <u>G</u> T <u>P</u> G <u>F</u> S <u>G</u> A <u>D</u> LA
Pas1p	875	QAI <u>VNS</u> K <u>D</u> K <u>D</u> T <u>G</u> Q <u>KK</u> FA <u>E</u> KN <u>AD</u> L <u>K</u> LIA <u>E</u> K <u>T</u> AG <u>F</u> S <u>G</u> A <u>D</u> L <u>Q</u>
NSF	416	HI...HTARMRGHQ.. <u>L</u> LS <u>AD</u> V <u>D</u> I <u>K</u> E <u>L</u> A <u>V</u> E <u>T</u> KN <u>F</u> S <u>G</u> A <u>E</u> LE

FIG. 1B

1 **MATKRAWKLOELVAHSSNVNCLALGPMSGRVMTGGEDKK**
 41 **VNLWAVGKONCIISLSGHTSPVDSVKFNSSEELVVAGSQS**
 81 **GTMKIYDLEPAKIVRTLGTGRNSIRCMDHPFGEFVASGS**
 121 **TDTNVKLWDVRRKGCIITYKGHSDQVNMIKFSPDGKWLVT**
 161 **ASEDTTIKLWDLTMGKLFQEFKNHTGGVTGIEFHPNEFLL**
 201 **ASGSSDRTVQFWDLETFQLVSSTSPGASAVRSISFHPDGS**
 241 **YLFCSSQDMLHAFGWEPIRCFTFSVGWGKVADTVIASTQ**
 281 **LIGASFNATNVSVYVADLSRMSTTGIAQEPOSQPSKTPSG**
 321 **GAEEVPSKPLTASGRKNFVRERPHTSSKORQPDVKSEPE**
 361 **RQSPQTQDEGVKDDDATDIKDPDSYAKIFSPKTRVDHSPE**
 401 **NAQPFPA PLDVPGAQEPEPFKHPPKPA AAAA AVAPVSRAPA**
 441 **PSASDWOPAOANPAPNRPVPAATKPVPAQEVA PSRKPDPI**
 481 **TIIIPS DRNKPANLDMDAFLPPAHAOOAPRVNAPASRKOSD**
 521 **SERIEGLRKGHDSMCQVLSSRHRNLDVVRAIWTAGDAKTS**
 561 **VESVVNMKDQAILVDILNIMLLKKSLWNLDLDMCVVVLPRLK**
 601 **ELLSSKYENYVHTSCACLKLILKNFTSLFNQNICKPPSGI**
 641 **DITREERYNKCSKCYSYLIATRGYVEEKQHVSGKLGSSFR**
 681 **ELHLLLDQLE**

FIG. 2A

Sp p80	4	KRAWKLOELVAHSSNVNCLALGPMSGRVMTGGEDKKVNLWA
Hs p80	8	KTAWKLOEIVAHASNVS SLVLGKASGRLLATGGDDCRVNLWS
Hs TFIID	531	KTASELKILYGHSGPVY GASFSP. DRNYLLSSSEDGTVRLWS
Tc PkwA	489	ASGDELHTLEGHTDWVRAVAFSP. DGALLASGSDDATVRLWD
Sp p80	46	VGKQNCIIISLSGHTSPVDSVKFNSSEELVVAGSQSGTMKIYD
Hs p80	50	INKPNCIMSLTGHTSPVESVRLNTPEELIVAGSQSGSIRVWD
Hs TFIID	572	LQTFTCLVGYKGHNYPVWDTQFSPYGYYFVSGGHDRVARLWA
Tc PkwA	530	VAAAEE RAVFEGHTHYVLDIAFSPDGSMVASGSRDGTARLWN
Sp p80	88	LEPAKIVRTLGTGRNSIRCMDHPFGEFVASGSTDTNVKLWD
Hs p80	92	LEAAKILRTLMLKANICSLDFHPYGEFVASGSQDTNIKLWD
Hs TFIID	614	TDHYQPLRIFAGHLADVNCTRFPNSNYVATGSADRTVRLWD
Tc PkwA	572	VATGTEHAVLKGH TDYVYAVAFSPDGSMVASGSRDGTIRLWD
Sp p80	130	VRRKGCIITYKGHSDQVNMIKFSPDGKWLVTASEDTTIKLWD
Hs p80	134	IRRKGCVFRYRGHSQAVRCLRFSPDGKWLASAADDHTVKLWD
Hs TFIID	656	VLNGNCVRIFTGKGPIHSLTFSPNGRFLATGATDGRVLLWD
Tc PkwA	614	VATGKERDVLQAPAENVVSLAFSPDGSMLVHG. SDSTVHLWD
Sp p80	172	LTMGKLFQEFKNHTGGVTGIEFHPNEFLLASGSSDRTVQFWD
Hs p80	176	LTAGKMMSEFFGHTGPVNVEFHPNEYLLASGSSDGTIRFWD
Hs TFIID	698	IGHGLMVGELKGHTDTVCSLRFSRDGEILASGSMDNTVRLWD
Tc PkwA	655	VASGEALHTEEGHTDWVRAVAFSPDGALLASGSDDRTIRLWD
Sp p80	214	LETFQLVSSTSPGASAVRSISFHPDGSYLFCSQDMLHAFGWE
Hs p80	218	LEKFQVVSRIECEPGPVRSLFNPDGCCLYSGCQDSLRYGWE
Hs TFIID	740	AIKAFEDLETDDFTTATGHINLPENSOELLGTY..MTKSTPV
Tc PkwA	697	VAAQEEHTLEGHTEPVHSVAFHPEGTLASASEDGTIRIWIPI

FIG. 2B

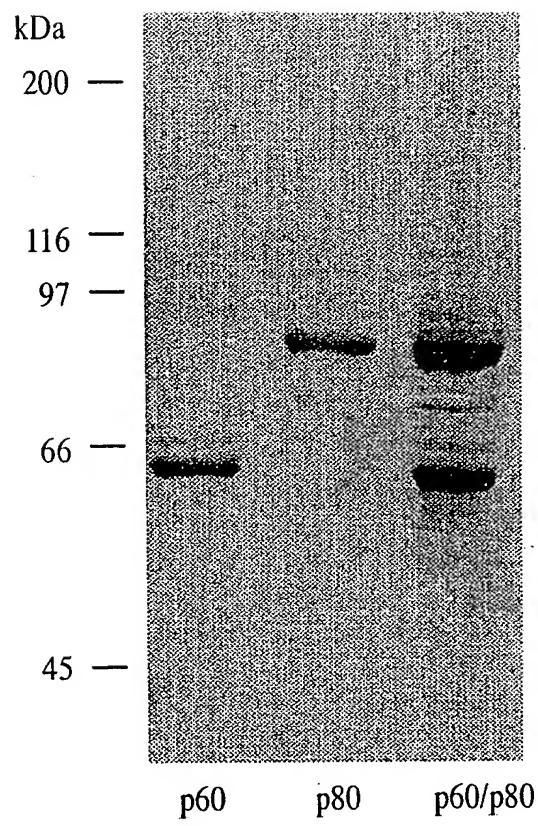


FIG. 3A

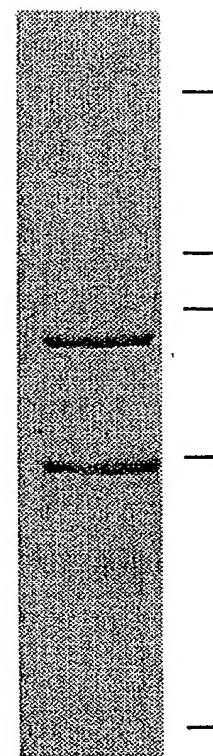


FIG. 3B

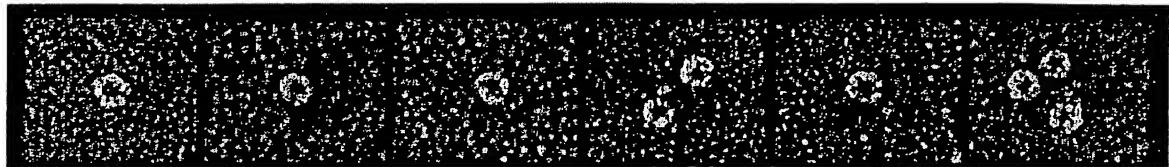


FIG. 4A

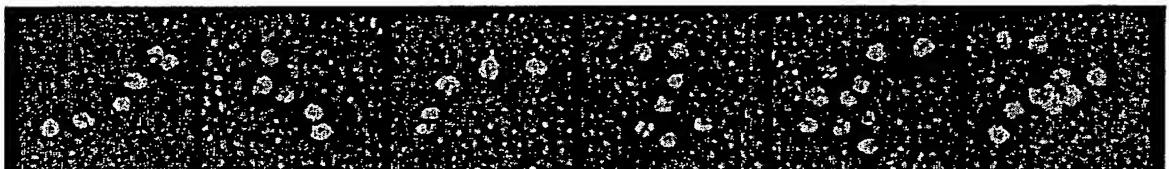


FIG. 4B

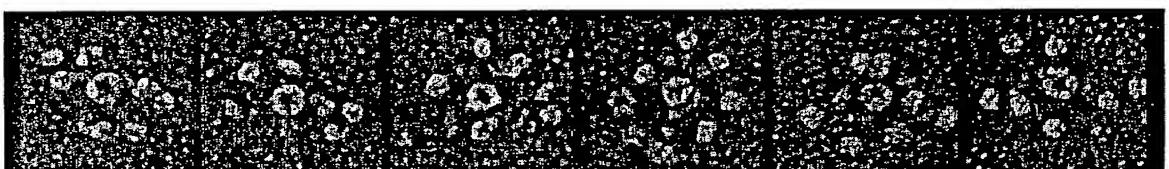


FIG. 4C

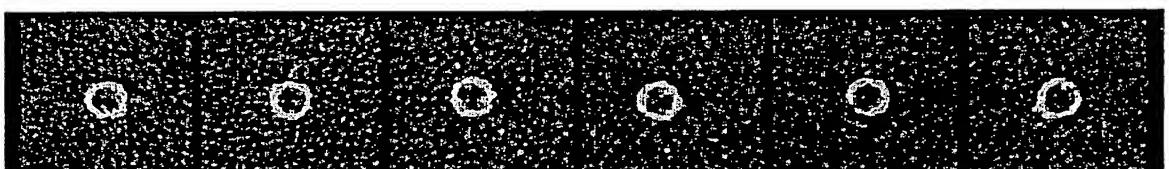


FIG. 4D

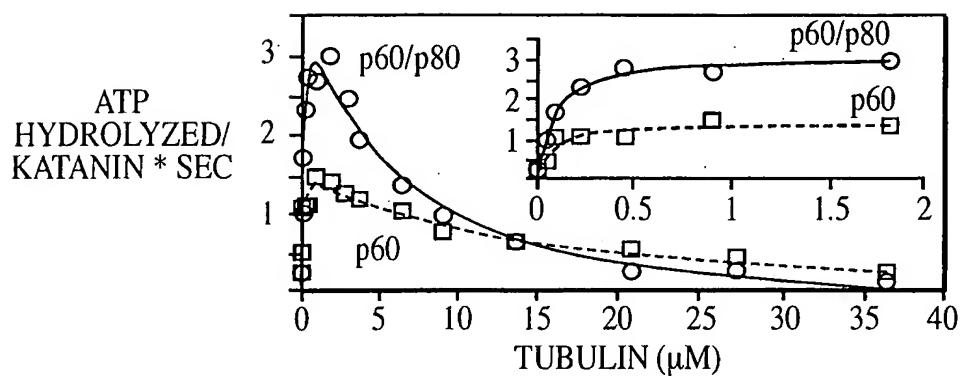


FIG. 5A

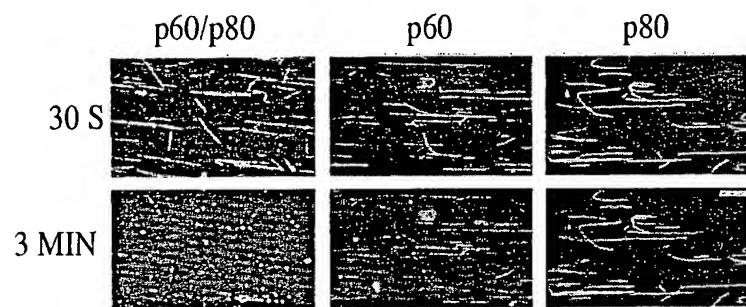


FIG. 5B

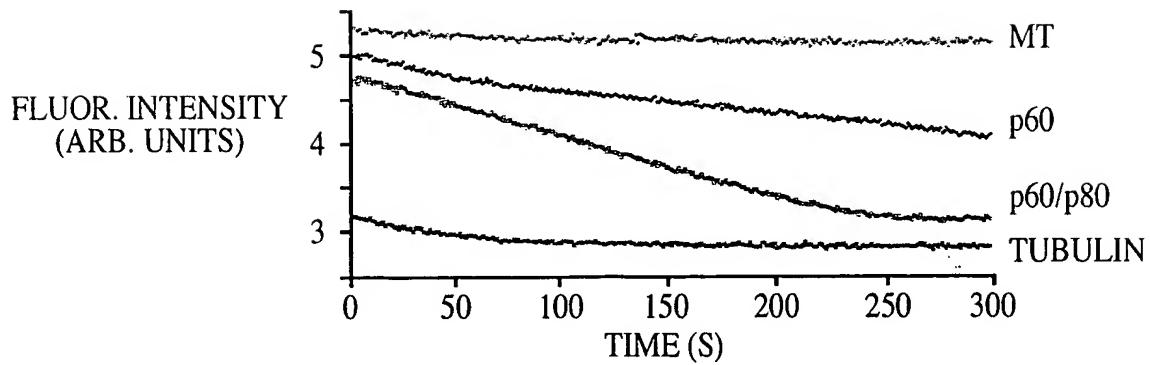


FIG. 5C

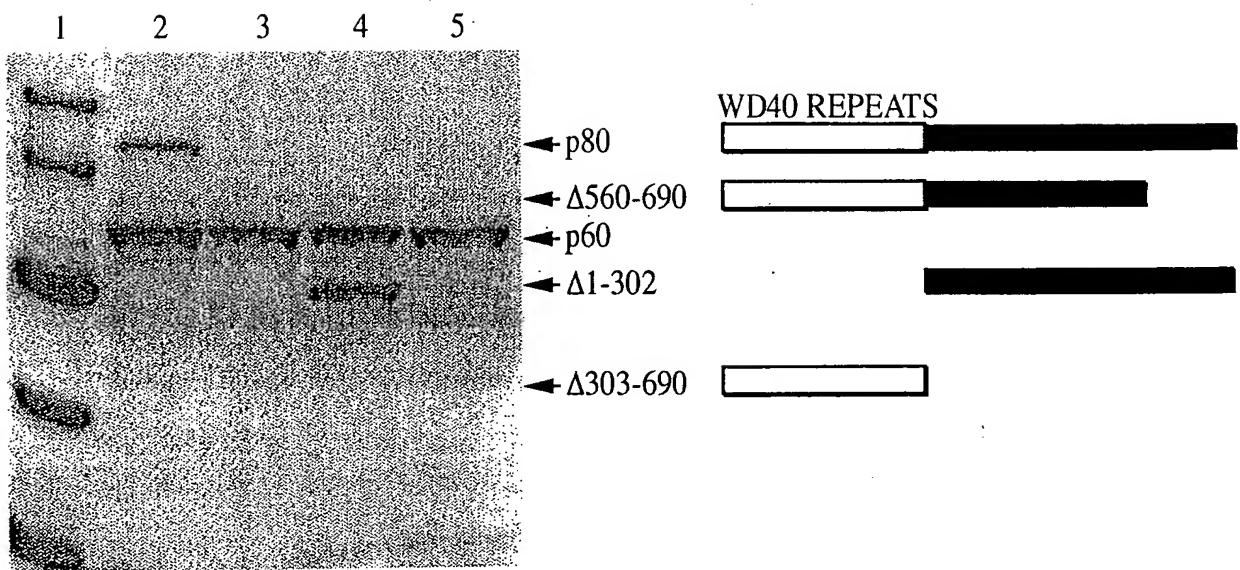


FIG. 6



FIG. 7A

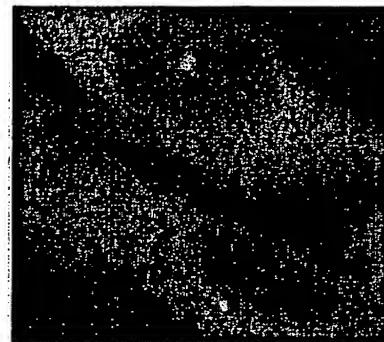


FIG. 7B

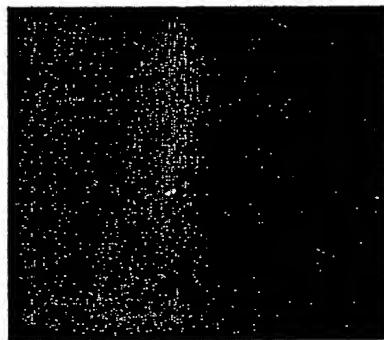


FIG. 7C

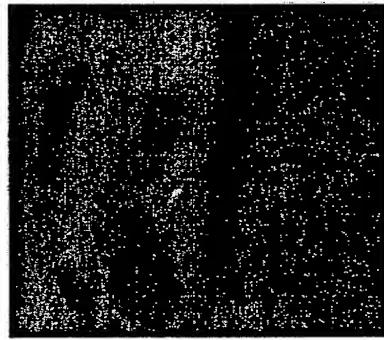


FIG. 7D

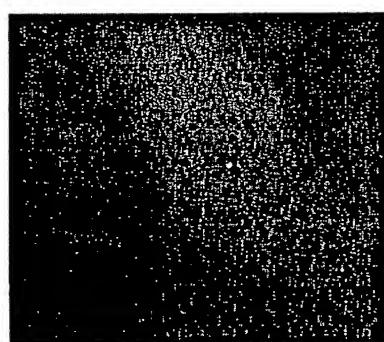


FIG. 7E

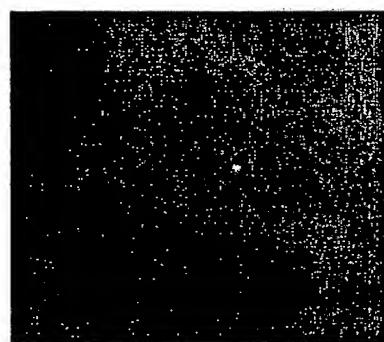


FIG. 7F